

**ABSTRACT OF THE DISCLOSURE**

[0034] In an embodiment, a transmitter section for a mobile device includes a predistorter for predistorting an input signal input to a modulation section. Predistortion values may be selected from a look-up table in response to a fed back signal from the output of the modulation section. A delay between the input signal and the fed back signal may be determined in two stages: a coarse delay estimation for determining a whole number of sample cycles, and a fine delay estimation for determining a fraction of a sample cycle to be added to the coarse delay estimation value.